

a fine, large-leaved *Arnica* probably of *Foliosae* group . . . ". Subsequently, Professor Nelson paid the writer the gracious compliment of naming these plants *Arnica Maguirei*. Subsequent collections in the park area and study of large series of specimens from various American and European herbaria reveal the plants under discussion to be a giant local variant of the complex and polymorphic assemblage which has variously gone under the name of *A. foliosa* Nutt. and those of numerous untenable segregates, and that moreover this assemblage represents a southern geographical race<sup>1</sup> of the earlier *A. Chamissonis* Less.<sup>2</sup> Therefore this large-leaved, tall (6–9 dm. high) variant becomes *Arnica Chamissonis* subsp. *foliosa* (Nutt.) Maguire, var. **Maguirei** (A. Nels.), comb. nov. The typical form of the ssp. *foliosa* occurs frequently in the area, as do many intergrades to the var. *Maguirei*. Collections which represent this extreme variant are the writers Nos. 1098 (the type collection of *A. Maguirei*) and 15356, a topotype.

Unless otherwise designated, all collections mentioned in this paper are represented in the Herbarium of the Utah State Agricultural College.

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Logan, Utah

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## LIST OF SECOND HUNDRED FUNGI OF NANTUCKET<sup>3</sup>

E. F. GUBA

THE island of Nantucket, Massachusetts, presents a fertile field of effort to one interested in its mycologic flora. Its ferns and flowering plants have been thoroughly worked by Bicknell<sup>4</sup> whose contributions

<sup>1</sup> *Arnica Chamissonis* Less. subsp. **foliosa** (Nutt.) Maguire, comb. nov. *Arnica foliosa* Nutt. *Trans. Am. Phil. Soc.* **11**. 7: 408. 1841.

<sup>2</sup> *Arnica Chamissonis* Lessing. *Linnaea* **6**: 238. 1831.

<sup>3</sup> Contribution Vol. IV No. 1 of the Nantucket Maria Mitchell Association, Div. of Natural Science, Nantucket, Mass. For the List of the First Hundred see *RHODORA* **39**: 367–376, 1937. The cost of illustration is met by the author and by the Maria Mitchell Association.

<sup>4</sup> For bibliography, see first list of Nantucket Fungi.



on the subject are of inestimable value in the identification of the plant parasitic fungi. This small remote island with circumscribed limits presents the opportunity and the satisfaction of obtaining a completeness of representation of its flora that is not easily possible for areas on the mainland. The arrangement of the vegetation on Nantucket, in rather definite limited masses determined by localized factors of soil, elevation, water, etc., as heath, bog, deciduous forest, sand dune, salt marsh vegetation and other types, offers a striking and appealing diversification to the collector and enables a complete representation especially of the most evident fungi, without much travel.

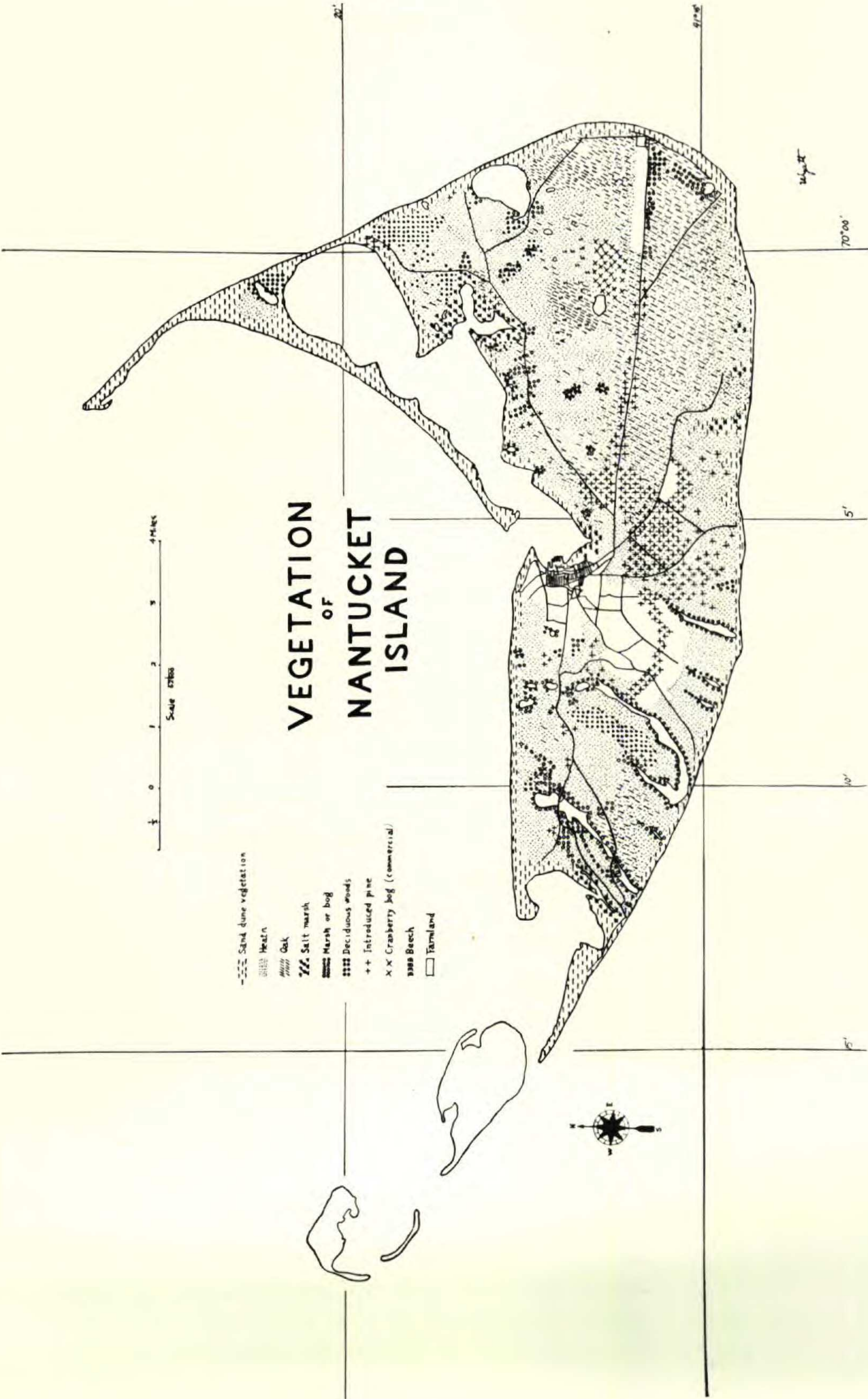
The charm of Nantucket and its fascinating ecological and climatic features have indirectly and lately served to attract others to an interest in its mycologic flora. It is hoped that these contributions, infrequent as they must necessarily be, will serve as a foundation for others to enlarge upon this effort and encourage other scientific pursuits on Nantucket. I am grateful to Mr. E. V. Seeler, Jr., a frequent visitor to Nantucket, for his generous contributions to this second list and to Dr. D. H. Linder of Harvard University for aid rendered him in making the determinations of some of his collections and for the preparation of the Latin descriptions of three new species reported in this paper; to Mr. C. J. Gilgut of the Massachusetts State College for the identification of some of the collections; finally to Mr. James P. Kimball, resident of the island, for certain collections of fleshy fungi. All of the other collections and identifications are by the writer whose visits to the island from time to time have been restricted to vacation periods.

A factor encouraging the pursuit of scientific effort in any region is the stimulating enthusiasm offered by the inhabitants. The people of Nantucket from the earliest times have fostered an interest in the natural sciences peculiar to the island. The study of its flora has been given considerable attention. In recent years this work has been energetically promoted by Miss Grace Wyatt, Director of Natural Science of the Nantucket Maria Mitchell Association. I am gratefully indebted to her for the fine maps of Nantucket showing the vegetation, ponds, hills, contours, etc., which are presented here to render more complete the reader's concept of the flora of the island. The original vegetation map of Nantucket by Harshberger published in 1914 has served as a guide in the preparation of the latest maps.











An idea of the changes in the mass vegetation of the island since 1914 may be acquired from a study of these maps.

LIST OF SECOND HUNDRED FUNGI OF NANTUCKET

101. *ALTERNARIA BRASSICAE* (B.) Sacc. On living leaves of *Brassica Rapa* L. Farm land at southern end of Hummock Road. Aug. 17, 1936. Very common especially on the lower leaves.
  102. *ALTERNARIA SOLANI* (Ell. & Martin) Jones & Grout. On living leaves of cultivated *Solanum tuberosum* L. Nursery and market garden outside of town on the Madaket Rd. Aug. 15, 1936. Very common. Familiar in plant pathological literature as "early blight."
  103. *ALTERNARIA SOLANI* (Ell. & Martin) Jones & Grout. On living leaves of *Lycopersicum esculentum* Mill. Same location as No. 102. Very common.
  104. *AMANITA RUBESCENS* Pers. Very abundant on ground in mat of pine needles, State White Pines south of Fair Grounds. Aug. 7, 1938. Coll. & det. by *E. V. Seeler, Jr.*
  105. *APIOSPORINA COLLINSII* (Schw.) V. Höhnelt. On leaves of *Amelanchier canadensis* (L.) Medic. Beach Rd. to Quidnet near Wauwinet, June 25, 1938. Coll. and det. by *E. V. Seeler, Jr.*
- This fungus causes a widespread witches broom characterized by numerous branches in which the mycelium of the parasite is perennial and by the development of a rich olivaceous or sooty mold of *Cladosporium* on the lower leaf surfaces. The perithecial stage develops in late summer in the sooty mold. Injury to the host is slight.
106. *ASCOCHYTA GRAMINICOLA* Sacc. On leaves of *Agropyron repens* (L.) Beauv. In fields along the Madaket Rd. Aug. 16, 1936.
  107. *ASCOCHYTA LOPHANTHI* J. J. Davis var. *LYCOPINA* J. J. Davis. On living leaves of *Lycopus uniflorus* Michx. On the border of Capaum Pond. Oct. 1, 1936.
  108. *BOLETUS CASTANEUS* Bull. On lawn in shade of *Quercus alba* L., 20 Orange Street. Coll. by *E. V. Seeler, Jr.* July 28, 1938. Det. by D. H. Linder.
  109. *BOLETUS EDULIS* (Bull.) Fr. Sept. 18, 1937. Coll. by *Chas. P. Kimball*. Det. by C. J. Gilgut.
  110. *BOLETUS FELLEUS* (Bull.) Fr. Sept. 18, 1937. Coll. by *Chas. P. Kimball* in pine woods east of his residence. Det. by C. J. Gilgut. Also collected and identified by *E. V. Seeler, Jr.*, State Pines south of Fair Grounds, Aug. 7, 1938.
  111. *BOLETINUS PICTUS* Pk. On ground in mat of needles of *Pinus Strobis* L. State Pines south of Fair Grounds. Aug. 7, 1938. Coll. by *E. V. Seeler, Jr.* Det. by D. H. Linder.
  112. *CAMAROSPORIUM METABLETICUM* Trail. On brown weathered



foliage of *Ammophila breviligulata* Fern. End of hard road at Madaket. Oct. 1, 1936. Common.

113. *CERCOSPORA LATHYRI* Dearn. & House. On living leaves of *Lathyrus maritimus* Bigel. Along the Haulover to Coskata. Aug. 15, 1936. Common, appearing in round to elliptical pale spots with distinct purple margins.
114. *CERCOSPORA RHODIA* C. & E. On leaves of *Rhus copallina* L. On eastern area of the Island. Sept. 30, 1936. Very noticeable toward latter part of season by distinct brown to purple spotting of the leaflets.
115. *CLADOSPORIUM Lysimachiae* Guba sp. nov., conidiophoris amphigenis plerumque epiphyllis, primo in maculis parvis rotundatisque aggregatis deinde in pagina inferiore per vena foliorum crebrescentibus, fuscis, septatis, simplicibus vel nonnumquam sinuosis vel geniculatis, 3.8–5  $\mu$  diametro, 63–110  $\mu$  longitudine; conidiis uniseptatis, pallide virescentibus, oblongo-ellipsoideis, 12–19 x 5.3–6.3  $\mu$ , non vel leviter ad septum constrictis.  
 Conidiophores amphigenous, for the most part epiphyllous, at first collected in small circular areas on the upper surface of the leaves and then spreading out from the venation on the lower surfaces, decumbent, dark olivaceous, sparsely septate, simple, mostly somewhat geniculate and with numerous spore scars, 3.8–5  $\mu$  in diameter, 63–110  $\mu$  long. Conidia 2-celled, pale greenish under the microscope, pecan-shaped or elongate-ellipsoid, 12–19 x 5.3–6.3  $\mu$ , slightly or not constricted at the septum, spore walls smooth.—On living leaves, rarely on the stems of *Lysimachia vulgaris* L. In waste places near the water front east of Main St., Aug. 15, 1936. Both upper and lower surfaces of the leaves are richly blotched with the dark olive wefts of the fungus.
116. *CLAVARIA AMETHYSTINA* (Batt.) Bull. Sept. 18, 1937. Coll. by Chas. P. Kimball. Det. by C. J. Gilgut. Very common in the pine woods on the island. Other collections made in August.
117. *CLAVARIA FUSIFORMIS* Sow. Hidden Forest. Oct. 1, 1936. Coll. by H. S. Tiffany. Det. by C. J. Gilgut.
118. *CLAVARIA INAEQUALIS* Mull. In Pine Woods. General on the Island. Aug. 12, 1936. Det. by C. J. Gilgut.
119. *CLAVICEPS PURPUREA* (Fr.) Tul. On *Spartina alterniflora* Loisel. var. *pilosa* (Merr.) Fern. with *Uromyces acuminatus* Arth. III. Oct. 1, 1936. Long Pond, Madaket.
120. *CLITOCYBE GIGANTEA* (Sow.) Quel. Sept. 18, 1937. Coll. by Chas. P. Kimball. Det. by C. J. Gilgut.
121. *COCCOPHACIDIUM CEMBRAE* Rehm. On lower dead branches of *Pinus Strobus* L. State Pines south of Fair Grounds. Coll. and Det. by E. V. Seeler, Jr. May 15, 1938. Fruiting bodies of circular outline and about 1 mm. in diameter, densely dotting the bark. Spores of smaller size than *C. Pini* (Fr.) Karst.



122. COLEOSPORIUM SOLIDAGINIS (Schw.) Thüm II. On living leaves of *Aster novi-belgii* L. Basset Jones Estate, Polpis. Sept. 30, 1936. Common on asters at this season.
123. COLEOSPORIUM SOLIDAGINIS (Schw.) Thüm II. On living leaves of *Aster ericoides* L. (*A. multiflorus* Ait.) In places along the Siasconset Rd. Sept. 28, 1936.
124. CRATERELLUS CORNUCOPIOIDES Fr. Hidden Forest. Oct. 1, 1936. Det. by C. J. Gilgut.
125. CRUCIBULUM VULGARE Tul. On fallen twigs and leaves of *Fagus grandifolia* Ehrh., Hidden Forest, Aug. 5, 1938. Coll. & det. by E. V. Seeler, Jr. Fruiting bodies resting on substrata like bird's nests.
126. CYTOSPORA AMBIENS Sacc. On dead or withering twigs of *Ulmus americana* L. East of Main Street near water front. Coll. by Walter Eger, Sept. 15, 1935.
127. DACRYOMYCES AURANTIUS (Schw.) Farlow. On bark of dead branch of *Pinus rigida* Mill. State Pines south of Fair Grounds, May 15, 1938. Coll. and det. by E. V. Seeler, Jr.
128. DAEDALIA CONFRAGOSA (Bolt.) Pers. On *Salix* sp. Hidden Forest, May 30, 1936. Coll. & det. by I. H. Crowell.
129. DAEDALIA CONFRAGOSA (Bolt.) Pers. On large dead tree of cultivated *Prunus* (cherry). Yard at 20 Orange Street, Aug. 19, 1938. Coll. and det. by E. V. Seeler, Jr.
130. DARLUCA FILUM (Biv.) Cast. Occurring on uredospores of *Puccinia Menthae* Pers. on living leaves of *Pycnanthemum muticum* (Michx.) Pers. North edge of Nantucket's largest cranberry bog and approaching Saul's Hills. Coll. and det. by E. V. Seeler, Jr. July 31, 1938.
131. DASYCYPHA ELLISIANA (Rehm.) Sacc. On dead branches of *Pinus Strobus* L. State Pines south of Fair Grounds. May 15, 1938. Coll. and det. by E. V. Seeler, Jr. Also on dead branches of *Pinus rigida* Mill. Same location, May 15, 1938. Coll. and det. by E. V. Seeler, Jr. and reported to be very common.
132. DIDYMELLA IRIDIS (Desm.) Tisdale. On dying leaves of *Iris versicolor* L. Capaum Pond, Oct. 1, 1936. Brown or orange elongate lesions coalescing and blighting the green leaves.
133. DIPLODIA SMILACINA B. On spots on living leaves of *Smilax rotundifolia* L., associated with *Sphaeropsis Smilacis* Ell. & Everh. In thicket at Polpis, Oct. 1, 1937.
134. DISCOSIA FAGINEA Lib. On brown over-wintered leaves of *Fagus grandifolia* Ehrh., Hidden Forest, May 30, 1936, with No. 156, *Mycosphaerella punctiformis* (P. ex. Fr.) Schrt.
135. DITIOLA RADICATA (Alb. & Schw.) Fr. On bark on dead branches of *Pinus rigida* Mill. State Pines south of Fair Grounds. Coll. and det. by E. V. Seeler, Jr.
136. ERYSIPHE CICHORACEARUM DC. On leaves and stems of *Verbena hastata* L. South of Coskata Pond. Aug. 16, 1936. Epidemic



- on this host. Powdery mildew covering the foliage and richly dispersed with perithecia. The lower leaves killed off.
137. *ERYSIPHE CICHORACEARUM* DC. On living leaves of *Solidago altissima* L. Polpis. Sept. 29, 1936.
  138. *ERYSIPHE COMMUNIS* Auct. Amer. On leaves of *Ranunculus acris* L. About abandoned cottage at Siasconset. Oct. 1, 1936.
  139. *EXIDIA RECISA* (Dittm.) Fr. On dead branch on living tree of *Quercus velutina* Lam. State Pines south of Fair Grounds, Aug. 11, 1938. Coll. & det. by *E. V. Seeler, Jr.*
  140. *EXOASCUS DEFORMANS* (B.) Fckl. = *Taphrina deformans* (B.) Tul. On leaves of old seedling of *Prunus persica* Sieb. & Zucc. in yard to rear of business block on Main Street, May 30, 1937.
  141. *FOMES APPLANATUS* (Pers.) Wallroth. On exposed wood of trunk of large living tree of *Gleditsia triacanthos* L., Union and Coffin Streets, July 25, 1938. Coll. and det. by *E. V. Seeler, Jr.* Also collected by the author on other hosts on the island.
  142. *FOMES CONNATUS* (Weinman) Gillet. On exposed heartwood of *Acer Negundo* L., sidewalk tree, Pine and School Streets. Aug. 29, 1938. Coll. and det. by *E. V. Seeler, Jr.*
  143. *FOMES CONNATUS* (Weinman) Gillet. On trunk of *Acer rubrum* L., Hidden Forest, Aug. 5, 1938. Coll. & det. by *E. V. Seeler, Jr.*
  144. *FULIGO SEPTICA* (L.) Weber. On bark of trunk of dead *Prunus* sp. (sweet cherry), back yard of 20 Orange Street, Aug. 19, 1938. Coll. & det. by *E. V. Seeler, Jr.* This slime mold because of its frequent occurrence on spent bark is popularly known as "flowers of tan."
  145. *GEASTER HYGROMETRICUS* Pers. In woods of *Pinus rigida* Mill., south of Town of Nantucket. May 29, 1937 (= *Astraeus hygrometricus* (Pers.) Morg.).
  146. *GLOEOSPORIUM NERVISEQUUM* (Fckl.) Sacc. On blighted twigs of large plane tree, *Platanus occidentalis* L., corner of Ray's Court and Main Street, May 29, 1937.

This famous old tree cited in many publications on Nantucket shows the effect of many years of struggle with infections of this anthracnose fungus. Witches brooms are clustered about the entire branchwork of the tree and rhizomorphs of *Armillaria mellea* (Vahl) Quel. (see Coll. No. 1) have developed extensively under the bark at the trunk and throughout the base of the tree. This tree, with others on Main Street in the town, seems to have suffered and succumbed to a lethal influencing factor, probably illuminating gas from street mains in 1934 to 1935.

147. *GLOEOSPORIUM PROFUSUM* Ell. & Ev. On living leaves of *Corylus americana* Walt., Polpis, Oct. 1, 1936. Large brownish spots



with yellowish margins often limited by midrib or veins and in severe cases browning a large portion of the leaf.

148. GUIGNARDIA BIDWELLII (Ell.) Viala & Ravaz. On rotted berries of cultivated grape, *Vitis vinifera* L., Nantucket town, Aug. 3, 1938. Coll. by Grace Wyatt.
149. GYMNOSPORANGIUM JUNIPERI-VIRGINIANAE Schw. On *Juniperus virginiana* L., Wauwinet Road out of town of Nantucket. May 29, 1937.
150. IRPEX CINNAMOMEUS Fr. On dead branch of *Quercus velutina* Lam., State Pines south of Fair Grounds. Coll. by E. V. Seeler, Jr. July 30, 1938. Det. by D. H. Linder.
151. LEOTIA CHLOROCEPHALA Schw. Coll. by Chas. P. Kimball, Sept. 18, 1937. Det. by C. J. Gilgut.
152. LOPHODERMIIUM PINASTRI (Schröd.) Chev. On needles of *Pinus sylvestris* L. Along Siasconset Road, May 30, 1937.
153. MERULIUS AMERICANUS Burt. In pine plank flooring causing destructive rot in cellar on Main Street. Oct. 31, 1937. Coll. by E. V. Seeler, Jr. Det. by D. H. Linder.
154. MACROPHOMA CANDOLLEI (Berk. & Br.) Berl. & Vogl. On brown blighted fallen leaves of *Buxus sempervirens* L. Garden at 18 Orange Street. July 17, 1938. Coll. by E. V. Seeler, Jr. Also common in box plantings about the town according to the author's observations.
155. MICROGLOSSUM FUMOSUM (Peck) Durand. On ground, Hidden Forest, July 31, 1938. Coll. by E. V. Seeler, Jr. Det. by D. H. Linder.
156. MYCOSPHAERELLA PUNCTIFORMIS (P. ex Fr.) Schrt. On overwintered leaves of *Fagus grandifolia* Ehrh. in Hidden Forest, May 30, 1936. Associated with *Discosia faginea* Lib.
157. NECTRIA CINNABARINA (Tode ex Fr.) On branches of *Hibiscus syriacus* L. in garden rear of Maria Mitchell Cottage, Vestal Street. Oct. 3, 1936.
158. PERONOSPORA VICIAE Auct. Amer. On living leaves of *Vicia sativa* L. in field opposite Franklin fountain along Madaket Road, May 30, 1937. This downy mildew was the cause of a blighting of the foliage.
159. PESTALOTIA HYSTERIFORMIS B. & C. On pale brown spots on living leaves of *Quercus velutina* Lam. Border of Hidden Forest. Sept. 30, 1937. Common.
160. PHYLLACHORA GRAMINIS (P. ex Fr.) Fckl. On *Agropyron repens* (L.) Beauv. About the "Woods" approaching the Maria Mitchell farmhouse from Madaket Road. Aug. 18, 1936.
161. PHYLLACHORA GRAMINIS (P. ex Fr.) Fckl., var. PANICI (S.) Shear. On dead overwintered *Panicum virgatum* L. June 1, 1936.
162. PHYLLOSTICTA EPIGAEAE Pk. On leaves of *Epigaea repens* L., causing leaf spotting and blighting, Smooth Hummocks, May 31, 1937.



163. *PHYLLOSTICTA ILLINOENSIS* Tehon & Daniels. On living leaves of *Sassafras variifolium* (Salisb.) Ktze. Hidden Forest, Oct. 1, 1936. Det. by C. J. Gilgut. Brown spots, center ash gray and falling out with age, border dark, coalescing and blighting the leaves.
164. *PHYLLOSTICTA OROBELLA* Sacc. On leaves of *Lathyrus maritimus* Bigel. Radio Compass Station, May 31, 1937. Det. by C. J. Gilgut. Gray elliptic spots with bright purple margins.
165. *PLASMOPARA PYGMAEA* (Ung.) Schrt. On living leaves of *Anemone quinquefolia* L. Hidden Forest and in thickets on south side of Polpis Road out of town. May 30, 1937.
166. *POLYPORUS PERENNIS* (L.) Fr. On ground in Hidden Forest, Aug. 5, 1938. Coll. & det. by E. V. Seeler, Jr.
167. *POLYPORUS SEMISUPINUS* Berk. & Curt. On dead branch of *Quercus velutina* Lam. State Pines south of Fair Grounds. July 30, 1938. Coll. by E. V. Seeler, Jr. Det. by E. V. Seeler, Jr. and D. H. Linder.
168. *POLYPORUS SULPHUREUS* (Bull.) Fr. On *Gleditsia triacanthos* L. From town on Wauwinet Road. Oct. 24, 1936. Coll. and det. by E. V. Seeler, Jr.
169. *PUCCINIA ANDROPOGONIS* Schw. III. On *Andropogon scoparius* Michx. East of south end of Hummock Road. Aug. 20, 1936.
170. *PUCCINIA ANGUSTATA* Peck III. On *Scirpus cyperinus* (L.) Kunth. Along Long Pond near Madaket Road, Aug. 15, 1936. Very common.
171. *PUCCINIA ASTERIS* Duby. III. On *Aster puniceus* L. In field at Polpis near Basset Jones Estate. Oct. 1, 1936. Det. by C. J. Gilgut.
172. *PUCCINIA CANALICULATA* (Schw.) Lagerh. II. On *Cyperus esculentus* L. In low places bordering corn field at south end of Hummock Road. July 16, 1936.
173. *PUCCINIA CORONATA* Cda. II, III. On leaves of *Agropyron repens* (L.) Beauv. Along the roadside, Madaket, Aug. 16, 1936.
174. *PUCCINIA GRAMINIS* Pers. O, I. On leaves of *Berberis vulgaris* L., State Pines near Miacomet Pond. May 30, 1936.
175. *PUCCINIA HELIANTHI* Schw. III. On living leaves of *Helianthus tuberosus* L. In thicket border in field south of road to Polpis. Sept. 30, 1936.
176. *PUCCINIA HIERACII* (Schum.) Mart. III. On living leaves of *Taraxacum officinale* Weber. Siasconset about cottages. Oct. 1, 1936.
177. *PUCCINIA INVESTITA* Schw. II. On leaves and stems of *Gnaphalium polycephalum* Michx. In fields west of south end of Hummock Pond. Common all over the Island destroying the lower leaves of this plant. Aug. 16, 1936.
178. *PUCCINIA IRIDIS* (DC) Wallr. III. On living leaves of *Iris versicolor* L., Hidden Forest. Aug. 15, 1936. Common and destructive in this locality.



179. PUCCINIA MALVACEARUM Bert. III. On *Althaea rosea* (L.) Cav. In border planting in garden, Nantucket town. Aug. 15, 1936.
180. PUCCINIA MALVACEARUM Bert. III. On *Malva rotundifolia* L. Around shops on water front in Nantucket town. May 30, 1937.
181. PUCCINIA RUBIGO-VERA (DC) Wint. var. AGROPYRI (Erikss.) Arthur II. On leaves and stems of *Holcus lanatus* L. Long Pond, near Madaket Road, Aug. 15, 1936.
182. PUCCINIA RUBIGO-VERA (DC) Wint. var. AGROPYRI (Erikss.) Arthur III, associated with *Puccinia coronata* Cda. III. On leaves of *Agropyron repens* (L.) Beauv. Roadside, Madaket. Aug. 15, 1936. Some of the telial stage of both species also present.
183. PUCCINIA RUBIGO-VERA (DC) Wint. var. SECALIS (Erikss.) Carl. II. On *Secale cereale* L. near Franklin fountain, Madaket Road, May 30, 1937. Very common.
184. PUCCINIA SEYMOURIANA Arth. II, III. On *Spartina Michauxiana* Hitchc. Along Long Pond, Madaket. Aug. 12, 1936.
185. PUCCINIA SORGHI Schw. II. On *Zea Mays* L., occurring in epidemic fashion and rendering the foliage conspicuously red from the distance. On farm at south end of Hummock Road. Aug. 15, 1936.
186. PUCCINIASTRUM PUSTULATUM (Pers.) Diet. II, III. On *Epilobium densum* Raf. South of Coskata Pond, Aug. 16, 1936.
187. RAMULARIA TARAXACI Karst. On living leaves of *Taraxacum officinale* Weber. Siasconset about cottages. Oct. 1, 1936.
188. RHYTISMA CURTISII B. & Rav. On living leaves of *Ilex opaca* Ait. Hidden Forest, May 29, 1936. Coll. by Mrs. E. F. Guba. Det. by D. H. Linder. Fungus common in this locality at this season appearing as reddish cushions breaking through the upper leaf surface.
189. RUSSULA EMETICA Fr. Coll. by James P. Kimball in woods near his residence. Sept. 18, 1937. Det. by C. J. Gilgut.
190. SCODELLINA LEPORINA (Batsch) S. F. Gray. Abundant in leaf mold on ground. Hidden Forest, July 31, 1938. Coll. and det. by E. V. Seeler, Jr.
191. SEPTORIA **Plucheae**, sp. nov., maculae orbiculares pallide brunneae interdum translucetes margine obscuro purpurascente vel rubescente, usque 0.5 cm. diametro, coalescentes; pycnidiis atris, globosis, minutis, punctiformibus, amphigenis, 70–110  $\mu$  diametro; conidiis multiseptatis, anguste filiformibus et ad apicem fastigiatis, curvulis, 30–63 x 1.5  $\mu$ .

Spots on leaves pale brown with indefinite purplish or reddish border, sometimes somewhat transparent, circular, up to .5 cm. in diam., coalescing and blighting the leaves. Pycnidia black, globose, minute, punctiform, amphigenous, rather sparse, 70–110  $\mu$  in diam. Conidia narrowly filiform or linear and tapering at the apex, multiseptate, somewhat curved, 30–63 x 1.5  $\mu$ .—



On living leaves of *Pluchea camphorata* (L.) DC. in marshy area bordering Coskata Pond. Aug. 16, and Oct. 1, 1936. Fungus causes circular leaf spots with purple margins in severe cases blighting and defoliating the plants.

192. *SEPTORIA Ligustici*, sp. nov., pycnidiis 60–100  $\mu$  diametro, amphigenis numerosis atris, globosis punctiformibusque, in maculis irregularibus; conidiis continuis, linearibus plerumque 12–22 rare usque 28  $\mu$  longitudine, 1.5  $\mu$  diametro.

Pycnidia 60–100  $\mu$  in diam., amphigenous, numerous, black, globose, punctiform, in irregular spots with indefinite borders and often with pale centers coalescing and blighting the leaves, similar to *Septoria celery* blight excepting that pycnidia are less conspicuous. Conidia continuous, linear, usually rather short, 12–22 x 1.5 or rarely up to 28  $\mu$  long.—On blighted leaves of *Ligusticum scoticum* L. about Capaum Pond. Oct. 1, 1936.

193. *SPHAEROPSIS ELLISII* Sacc. On dead cut-off branches of *Pinus rigida* Mill. between Hummock and Miacomet Ponds, May 30, 1936. Coll. by C. J. Gilgut.

194. *SPHAEROPSIS SMILACIS* Ell. & Ever. On spots on living leaves of *Smilax rotundifolia* L. In thicket at Polpis, Oct. 1, 1937, with *Diplodia Smilacina* B.

195. *STEGANOSPORIUM ACERINUM* Pk. On dead twig of *Acer Pseudo-Platanus* L. in yard on Fair Street in town. Aug. 19, 1937. Coll. & det. by E. V. Seeler, Jr.

196. *STROBILOMYCES STROBILACEUS* (Scop.) Berk. On ground in mat of pine needles, State Pines south of Fair Grounds. Aug. 11, 1938. Coll. and det. by E. V. Seeler, Jr.

197. *THYRONECTRIA DENIGRATA* (Winter) Seaver. On bark of *Gleditsia triacanthos* L., 92 Main Street; also at "Driftwood Estate" at Brant Point, Oct. 17, 1936. Coll. and det. by E. V. Seeler, Jr. Fungus is more commonly known as *Pleonectria denigrata* Winter.

198. *TRICHOGLOSSUM FARLOWI* (Cke.) Durand. In leaf mold on ground, Hidden Forest, Aug. 5, 1938. Coll. by E. V. Seeler, Jr. Det. by D. H. Linder.

199. *TRICHOLOMA PERSONATUM* Fr. In pine woods bordering Siasconset Road, Oct. 1, 1936. Det. by C. J. Gilgut.

200. *TRICHOLOMA RUTILANS* (Schaeff.) Quel. Coll. by Chas. P. Kimball, Sept. 18, 1937. Det. by C. J. Gilgut.

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